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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/582,524	04/05/2007	Thomas N. Horsky	211843-00047	1041	
271/0 75%) PATENT ADMINISTRATOR KATTEN MUCHIN ROSENMAN ILP 1025 THOMAS JEFFERSON STREET, N.W. EAST LOBRY SILITE 700			EXAM	EXAMINER	
			SOUW, BI	SOUW, BERNARD E	
			ART UNIT	PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/582 524 HORSKY ET AL. Office Action Summary Examiner Art Unit BERNARD E. SOUW 2881 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 08/21/2006 (PreAmdt). 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1 and 28-66 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1 and 64 is/are rejected. 7) Claim(s) 28-63,65 and 66 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 09 June 2006 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892) 4. Interview Summary (PTO-413) Paper Notice of Draftsperson's Patent Drawing Review (PTO-948) 5. Interview Summary (PTO-413) Paper Notice of Draftsperson's Patent Drawing Review (PTO-948) 5. Interview Summary (PTO-413) Paper Notice of Interview S

Attachment(s)

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DETAILED ACTION

Preliminary Amendment

The Preliminary Amendment filed on 08/21/2006 has been entered. The present
Office Action is made with all the suggested amendments being fully considered.

Claims 2-27 have been cancelled.

New claims 28-66 have been added.

Claims 1 and 28-66 are pending in this Office Action.

Information Disclosure Statement

 Receipt is acknowledged of information disclosure statements (IDS) submitted on 12/13/2007 and 08/21/2006. The submission is in compliance with the provisions of 37 CFR 1.97.

Signed copies of the information disclosure statements are here enclosed.

Priority

3. Receipt is acknowledged of papers submitted under 35 U.S.C. 371, PCT/US04/41060 filed on 09 December 2004, which claims further priority to a U.S. provisional application filed on 12 December 2003, which papers have been placed of record in the file.

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Abstract

 The Abstract of the disclosure is objected to because it is not written on a separate sheet, but as part of a publication of a corresponding PCT application.

Applicant is reminded of the proper language and format for an abstract of the disclosure. The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes." etc.

Double Patenting

Statutory (35 U.S.C. 101) Double Patenting

A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See Miller v. Eagle Mfo. Co., 151 U.S. 186 (1894): In re Ockert, 245 F.2d 467.

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114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

 Claim 1 is provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claim 1 of copending Application No. 11/648365.

Claim 1 contains allowable subject matter for reciting a closed-loop control system for vapor delivery that is constructed to vary the conductance of a throttle valve so that the flow of vapor to the vacuum chamber thereby being determined by pressure of the vapor in the region of the passage between the throttling valve and the vapor conduit.

This is a <u>provisional</u> double patenting rejection since the conflicting claims have not in fact been patented.

Non-Statutory Type Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double

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patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Obviousness Type Double Patenting

6. Claim 64 is provisionally rejected on the ground of nonstatutory obviousness-type

double patenting as being unpatentable over claim 1 of copending U.S. Patent

Application No. 11/648.365. Although the conflicting claims are not identical, they are

not patentably distinct from each other because:

The control system recited in the present claim 64 is exactly the same as the

system used in the vapor delivery system recited in claim 1 of copending U.S. Patent

Application No. 11/648,365; the only difference being found only in their preamble,

which is here not given a full patentable weight.

This is a provisional obviousness-type double patenting rejection because the

conflicting claims have not in fact been patented.

7. Claims 28-63, 65 and 66 are objected to as being dependent upon a rejected

base claim(s), but would be allowable upon obviating the present rejection of the

respective parent claims, or if rewritten to overcome the applicable rejection(s) and to

include all of the limitations of the base claim and any intervening claims.

Indication of Allowable Subject Matter

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8. Claim 1 contains allowable subject matter provided it is so amended to become

an Obviousness Double Patenting rejection, which can be then allowed upon receipt of

a Terminal Disclaimer by the office.

9. Claim 64 contains allowable subject matter after upon receipt of a Terminal

Disclaimer by the office.

10. Claims and 64 contain allowable subject matter for reciting a closed-loop control

system for delivery of sublimated vapor that is constructed to vary the conductance of a

throttle valve such that the flow of vapor to the vacuum chamber is thereby determined

by the vapor pressure in the region of the passage between the throttling valve and the

vapor conduit.

11. Claims 28-63, 65 and 66 also contain allowable subject matter for being

dependent, either directly or indirectly, on previously allowable claims 1 or claim 64.

Relevant Prior Art

9. This prior art made of record and not relied upon is considered pertinent to

applicant's disclosure:

(a) USPGPub 2007/0210260 and USPGPub 2008/0121811, both issued to Horsky et

al., disclose a closed-loop control system for delivery of vapor or gas that is constructed

to vary the conductance of a throttle valve. However, the inventions are not directed to

a vapor sublimated from solid materials, but to an ion source.

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(b) USPGPub 2003/0030010 issued to Perel et al.; USPAT 5,887,117 issued to Desu et

al.; USPAT 6,107,634 issued to Horsky; USPGPub 2005/0263075 and USPAT

6,909,839 issued to Wang et al.; and USPAT 7,050,708, USPAT 6,839,505 and USPAT

6.701.066 issued to Sandhu; all eight references disclose a closed-loop control system

for delivery of vapor sublimated from solid materials. However, the control system fails

to vary the conductance of a throttle valve.

(c) USPAT 6,452,338 issued to Horsky, USPAT 6,712,084 issued to Shojii et al., and

USPAT 5,451,258 issued to Hillman et al., all three references disclose a closed-loop

control system for delivery of vapor or gas. However, the control system fails to vary

the conductance of a throttle valve. Furthermore, the invention is not directed to a

vapor sublimated from solid materials.

(d) USPGPub 2007/0186983 and USPGPub 2006/0237063, both issued to Ding et al.,

and USPGPub 2006/0237136 issued to Nguyen et al., al three references disclose a

closed-loop control system for delivery of vapor or gas that is constructed to vary the

conductance of a throttle valve. However, the inventions are not directed to a vapor

sublimated from solid materials. Furthermore, all three references are predated by the

priority date (12/12/2003) of the present application.

Communications

10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Bernard E Souw, Ph.D., whose telephone number is

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 $571\ 272\ 2482.$ The examiner can normally be reached on Monday thru Friday, $9{:}00$ am

to 5:00 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Robert Kim can be reached on 571 272 2293. The central fax phone

number for the organization where this application or proceeding is assigned is 571 273

8300 for regular communications as well as for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 571 272

5993.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

/Bernard E Souw/

Primary Examiner, Art Unit 2881